

We claim:-

1. The use of a laminating adhesive comprising as binder a mixture of
  - 5 A) a polymer obtainable by polymerizing free-radically polymerizable compounds, and
  - B) compounds containing ethylenically unsaturated, free-radically polymerizable groups (polymerizable groups for short) and having a weight-average molecular weight Mw of less than 5000 g/mol
- 10 for high gloss film lamination, i.e., for bonding transparent polymer films to paper or card, or for composite film lamination, i.e., for bonding polymer films to other polymer films, metal foils or metallized films.
- 15 2. The use as claimed in claim 1, wherein the polymer is composed of at least 40% by weight of (meth)acrylates.
3. The use as claimed in claim 1 or 2, wherein the polymer is crosslinkable by irradiation with high-energy light.
- 20 4. The use as claimed in any of claims 1 to 3, wherein attached to the polymer is a photoinitiator.
5. The use as claimed in any of claims 1 to 4, wherein the polymer has an average molar weight which is at least twice as high as the molar weight of B).
- 25 6. The use as claimed in any of claims 1 to 5, wherein the polymer has a K value of from 10 to 90 (tetrahydrofuran, 1% strength by weight solution, 21°C).
- 30 7. The use as claimed in any of claims 1 to 6, wherein the polymer is a solution polymer.
8. The use as claimed in any of claims 1 to 7, wherein the compounds B) at 21°C and 1 bar are liquid and have a viscosity of from 0.05 to 50 Pas.

9. The use as claimed in any of claims 1 to 8, wherein the compounds B) comprise on average from 1 to 5 polymerizable groups per molecule.
10. The use as claimed in any of claims 1 to 9, wherein the polymerizable groups of the compounds B) are acryloyl or methacryloyl groups.
11. The use as claimed in any of claims 1 to 10, wherein the compounds B) are (meth)acrylic esters of polyhydric, unalkoxylated or alkoxylated alcohols.
12. The use as claimed in any of claims 1 to 11, wherein the weight fraction of the compounds B) is from 5 to 70% by weight, based on the total weight of A) +B).
13. The use as claimed in any of claims 1 to 12, comprising from 0.0001 to 1 mol of a photoinitiator or photoinitiator group per 100 g of the total weight of polymer A) and compounds B).
14. The use as claimed in any of claims 1 to 13, comprising less than 5 parts by weight of water or solvent, based on 100 parts by weight of the total weight of A) and B).
15. A method of adhesively bonding a UV or electron beam transparent film to another substrate for high gloss film lamination or composite film lamination, which comprises applying a laminating adhesive as claimed in any of claims 1 to 14 to at least one of the adherend substrates, bonding the substrates and then irradiating the UV or electron beam transparent film with high-energy light.
16. A method as claimed in claim 15, wherein the UV or electron beam transparent film carries print.
17. A substrate assembly obtainable through the use of claim 1 or 14 or by a method as claimed in claims 15 or 16.